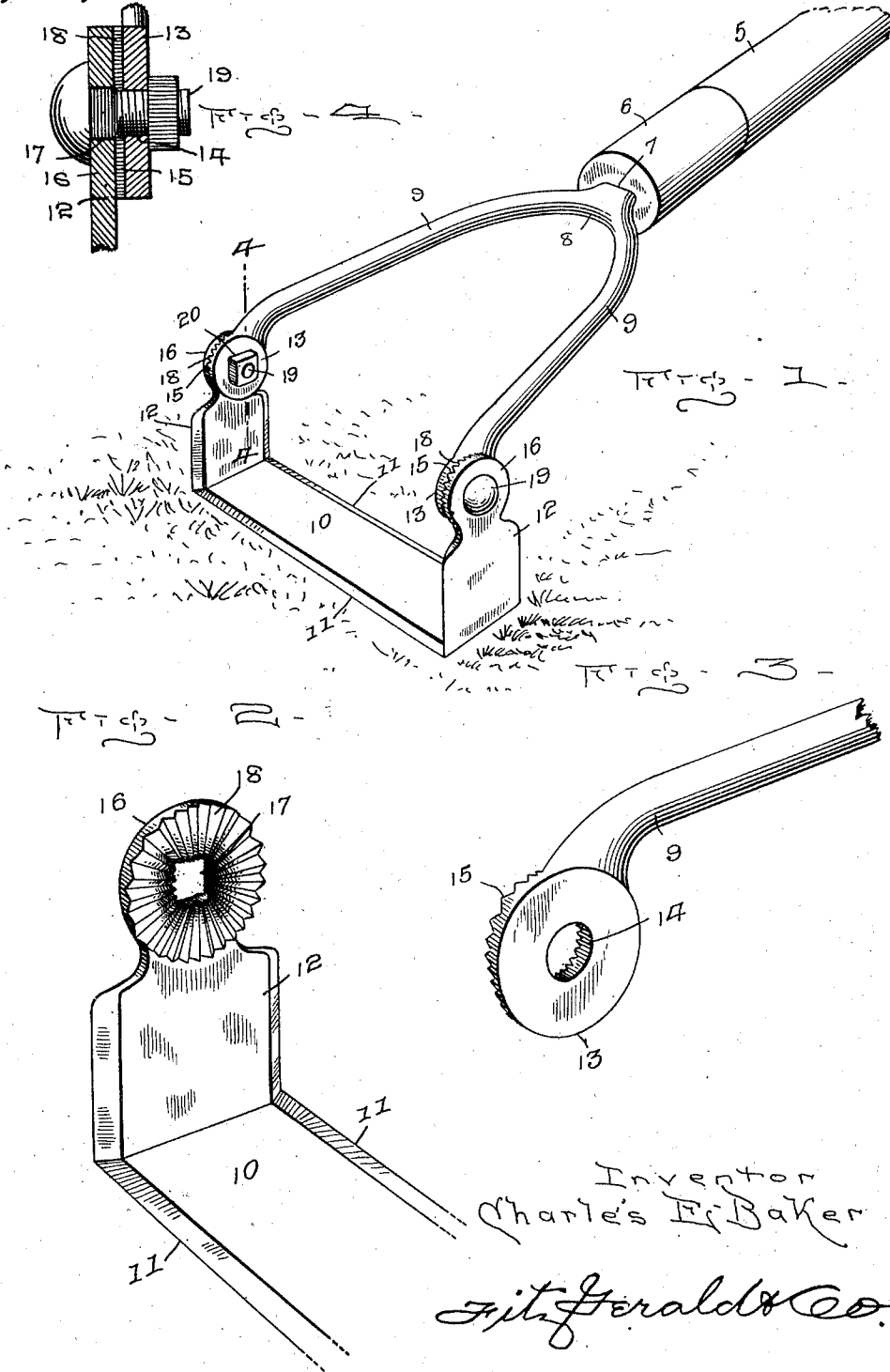


C. E. BAKER.
GARDEN WEEDER.
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GARDEN-WEEDER.

1,334,586.

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To all whom it may concern:

Be it known that I, CHARLES ELY BAKER, a citizen of the United States, residing at Roodhouse, in the county of Green and State of Illinois, have invented certain new and useful Improvements in Garden-Weeders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to garden tools and particularly to weeding hoes and its primary object is to provide an improved implement of this character of simple and economical construction and with a great range of utility.

A further object of the invention is to provide an improved implement of this character in which the blade is reversible, at will, and in which the angle of the blade and its holder may be varied at the will of the user.

With these objects in view, my invention consists in the improved construction, arrangement, and combination of parts hereinafter fully described, and afterward specifically claimed.

In order that the construction and operation thereof may be readily comprehended, I have illustrated an approved embodiment of my invention in the accompanying drawings, and will now proceed to fully describe the same, having reference to said drawings, in which

Figure 1 represents a perspective view of my improved implement in position for use, part of the handle being broken away.

Fig. 2, a perspective view of one end of the cutter frame, detached, the other end being broken away.

Fig. 3, a perspective view of the end of one of the prongs of the fork which connects the handle and the cutter frame, and

Fig. 4, a detail sectional view taken on the line 4-4 on Fig. 1.

Like reference characters indicate the same parts in all of the figures of the drawings.

Referring particularly to the drawing, 5 indicates a handle of ordinary form and material such as usually used for garden or hand farming tools such as rakes, hoes and the like, upon the outer end of which is an ordinary ferrule 6 to secure the end against splitting and to firmly hold the stem 7 of a

fork or yoke 8 upon the arms 9 of which the operative parts of the device are supported.

At 10 is shown the cutting or weeding blade which is of oblong form with cutting edges along its sides as at 11, and integral with the blade at each end and at right angles thereto are wings 12, 12, the blade and wings being denominated the cutting frame.

Upon the outer ends of the arms 9 of the fork are circular heads 13 having central bearing openings 14, said heads being vertically arranged and parallel to each other, and formed, on their outer faces with radial grooves and intervening ridges 15.

Upon the upper ends of the wings 12 of the cutter frame are circular heads 16 facing and parallel with each other and provided with central non-circular openings 17 and upon their inner faces, radial grooves and intervening ridges 18.

When the heads 13 of the yoke 8 are placed between the heads 16 of the wings 12, the respective grooves and ribs 15 and 18 will fit each other and the openings 14 and 17 will be in alinement to receive shouldered bolts 19, upon which are nuts 20, by means of which the heads are securely held together.

The heads may be adjusted to any desired position to bring the wings in parallelism with the handle, or at any desired angle thereto, so as to adjust the position of the blade 10 with relation to the handle, to suit the particular kind of work to be done. The heads 16 with the openings 17 will hold the bolts 19 against rotation while the nuts are being tightened.

It will be obvious that the ribs and grooves on the heads 13 and 16 may be made on either face thereof, so that, if desired, the yoke heads may be on the outside of the wing heads, if so desired.

The operation of my improved implement will be readily understood from the foregoing description. The shape of the blade enables it to be used advantageously for the purpose of removing weeds from among growing plants without danger of injuring the latter. The implement is self-cleaning, inasmuch as by simply reversing the device any weeds, grass-roots, and the like that may have become entangled therewith will easily and instantaneously slip out. The device may also be properly described as "self-sharpening," inasmuch as at all times the

upper edge of the blade will be subjected to the grinding action of the soil, and will thus be kept sufficiently sharp for all practical purposes. When the device is used for thin-
5 ning rows of growing plants, it may be of a width sufficient to leave the desired space between the stands, and a single stroke will thus be sufficient to remove the plants which it may be desired to destroy.
10 Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent of the United States, is:
A weeding hoe comprising an elongated flat blade, provided at each end with a wing
15 extending therefrom at a right angle therewith, the opposite edges of said blade and wings being beveled at their inner sides, each of said wings having a circular head provided with a central aperture and with
20 radial teeth at its inner side, a handle hav-

ing a fork provided with heads disposed at the inner side of the aforesaid heads, the fork heads having central apertures and radial teeth at their outer sides to engage the aforesaid teeth, and bolts extending through
25 the apertures of the heads for pivoting the heads together and clamping them against one another in pairs, the aperture of one head of each pair being of angular form, and each bolt having an angular portion
30 fitting in the corresponding angular aperture.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES ELY BAKER.

Witnesses:

CHARLES B. CRABTREE,
LOGAN O. HAMILTON.